## FIGURE 1

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FIGURE 2

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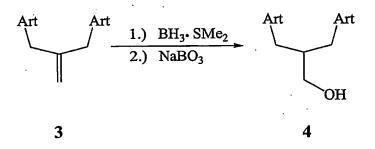


FIGURE 3

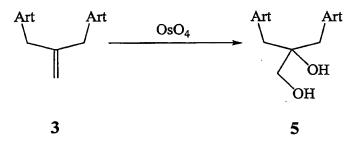


FIGURE 4

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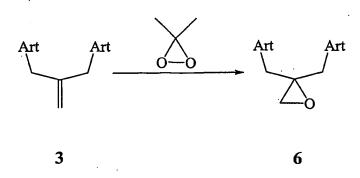


FIGURE 5

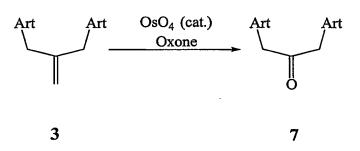


FIGURE 6

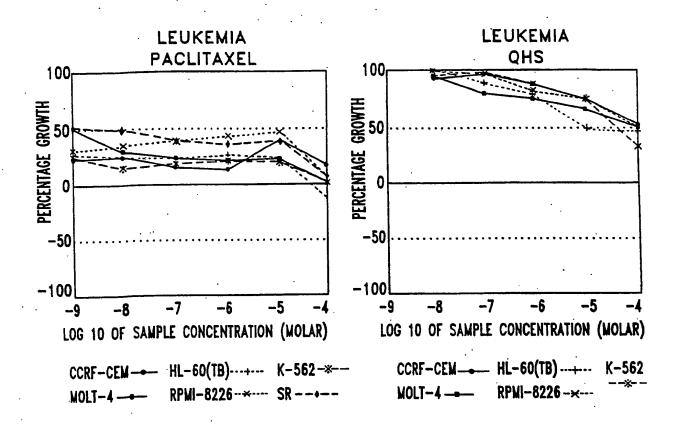


Fig. 7a

Fig. 7b

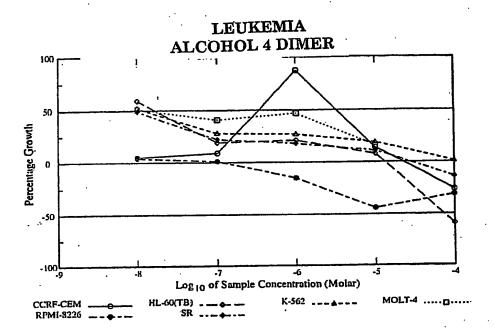


Fig. 7c

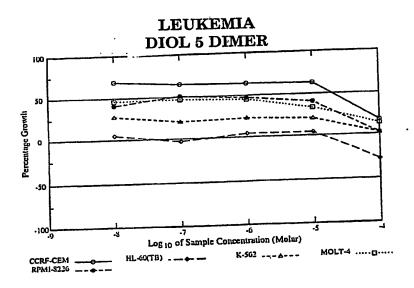


Fig. 7d

PCT/US2003/030612

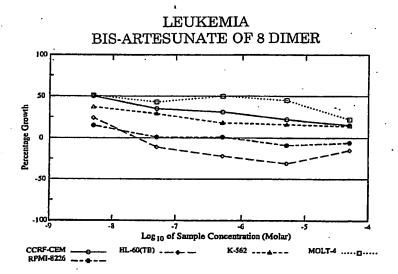


Fig. 7e

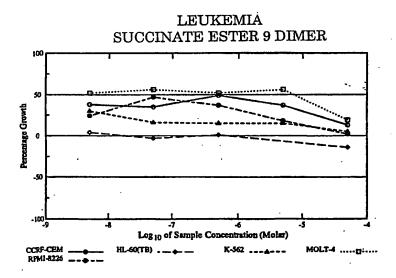


Fig. 7f

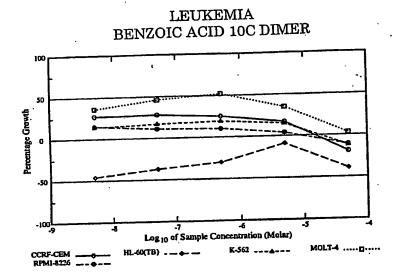


Fig. 7g

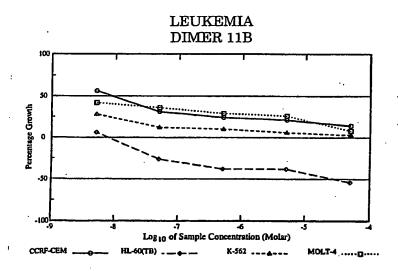


Fig. 7h

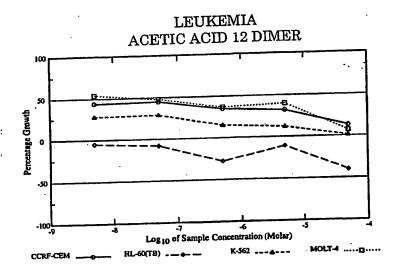


Fig. 7i

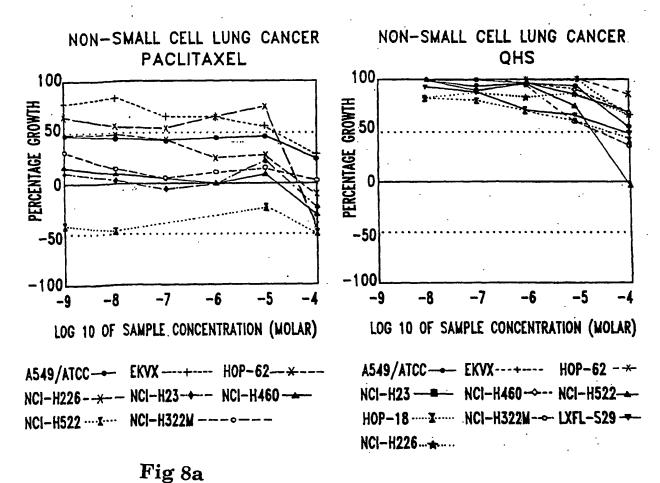


Fig. 8b

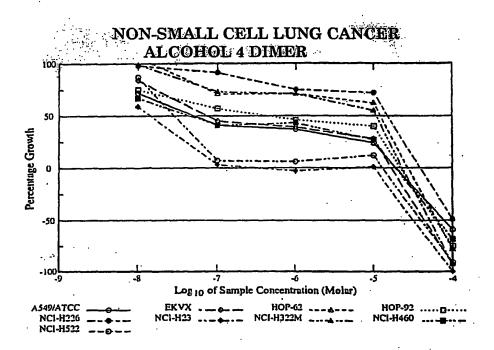


Fig. 8c

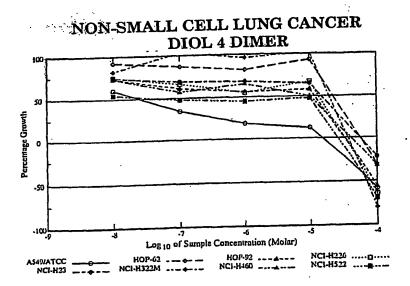


Fig. 8d

PCT/US2003/030612

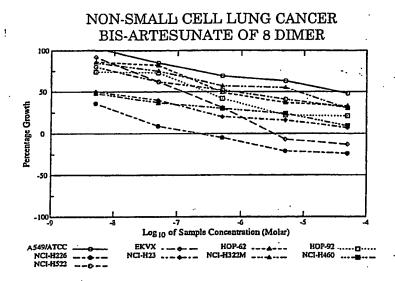


Fig. 8e

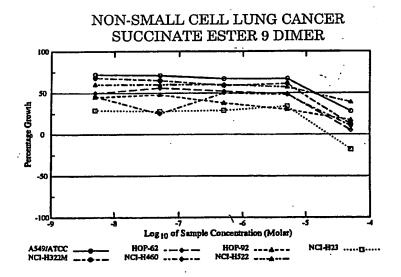


Fig. 8f

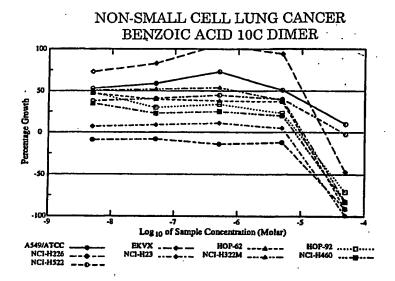


Fig. 8g

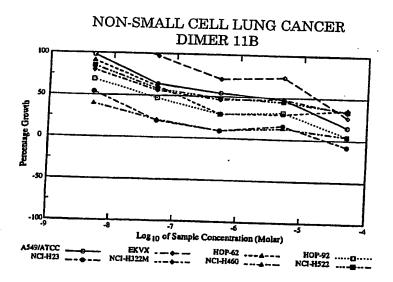


Fig. 8h

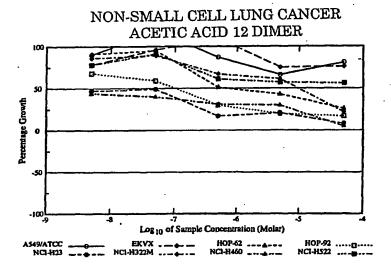


Fig. 8i

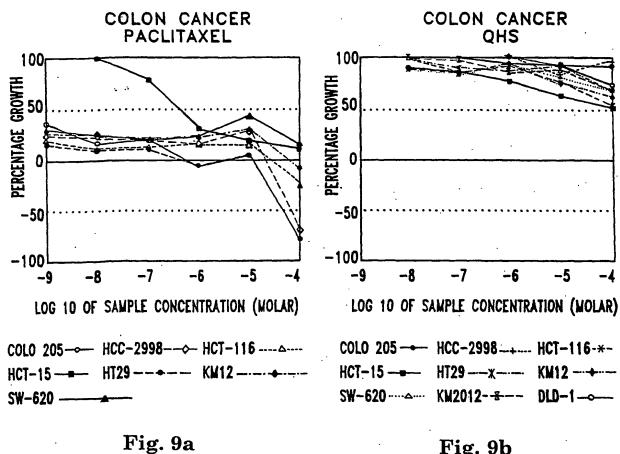
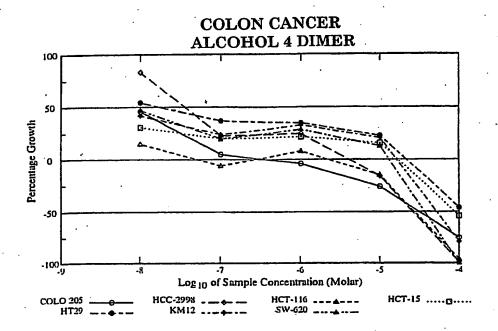


Fig. 9b



Fib. 9c

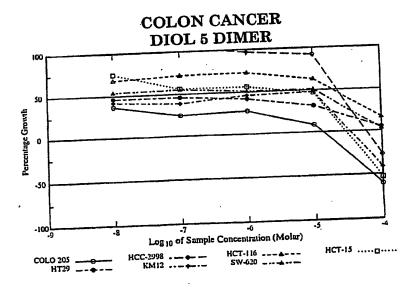


Fig. 9d

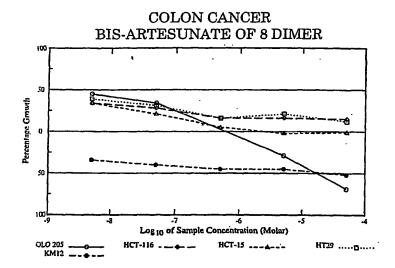


Fig. 9e

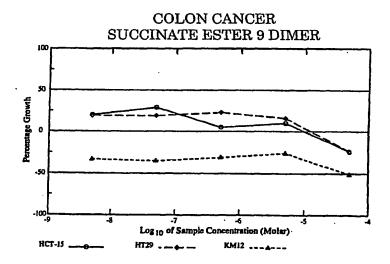


Fig. 9f

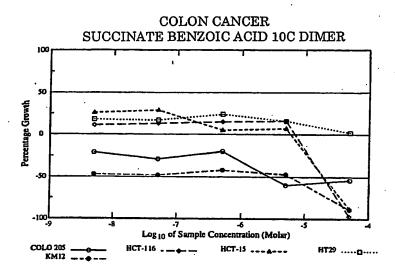


Fig. 9g

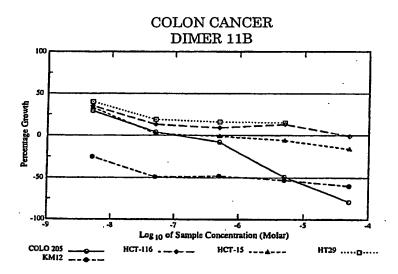


Fig. 9h

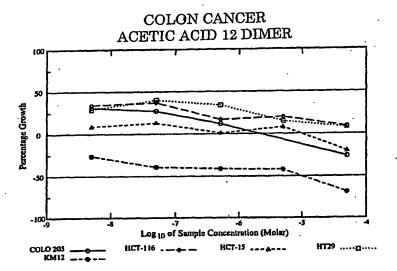


Fig. 9i

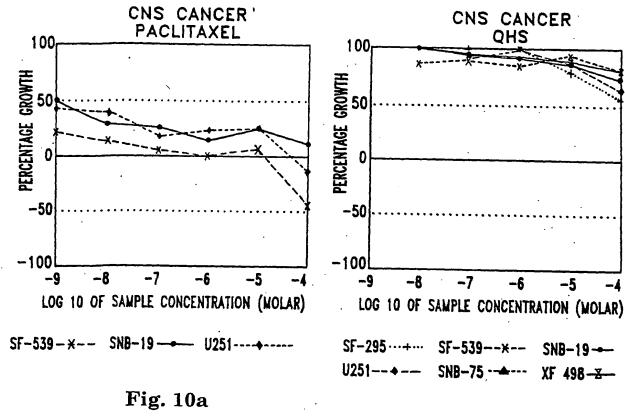


Fig. 10b

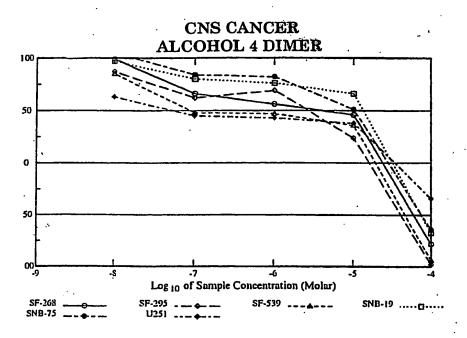


Fig. 10c

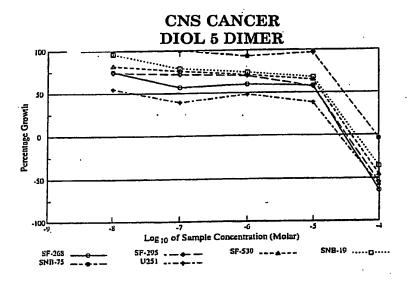


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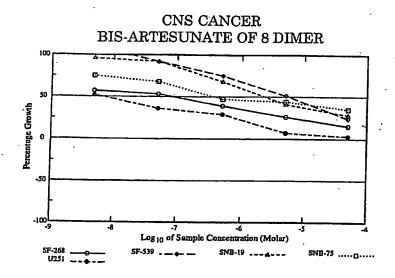


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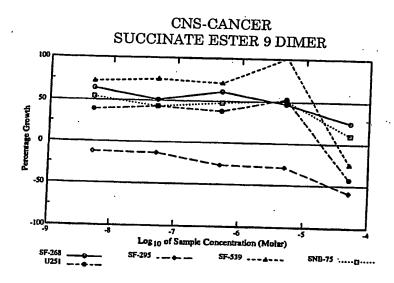


Fig. 10f

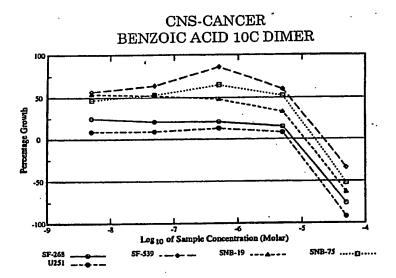


Fig. 10g

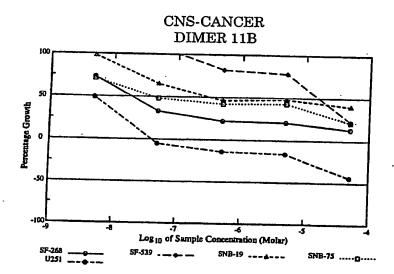


Fig. 10h

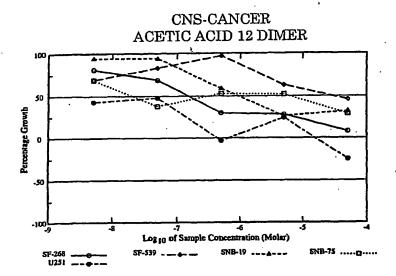


Fig. 10i

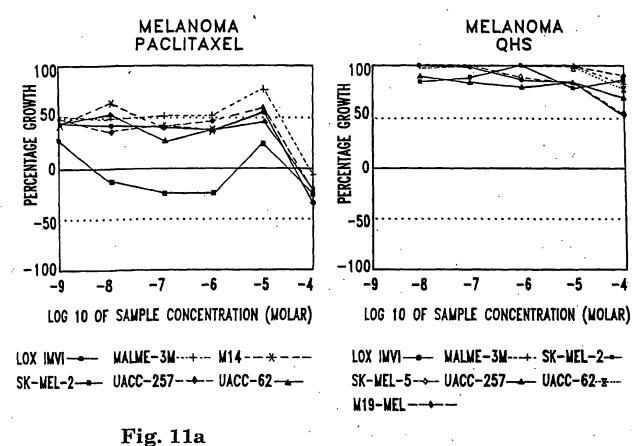


Fig. 11b

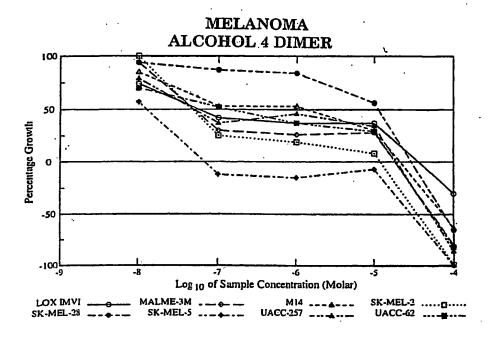


Fig. 11c

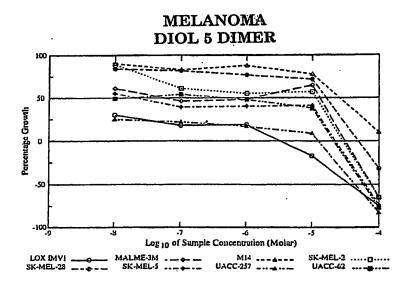


Fig. 11d

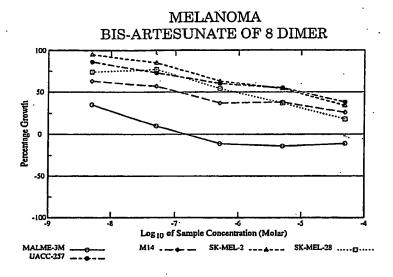


Fig. 11e

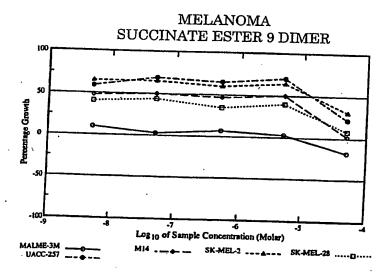


Fig. 11f

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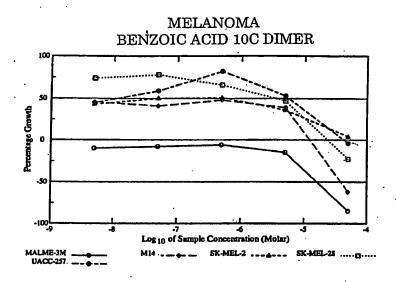


Fig. 11g

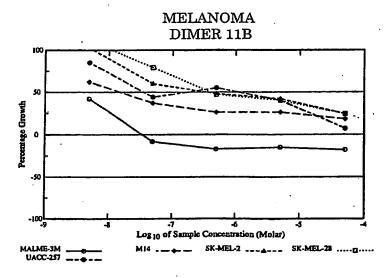


Fig. 11h

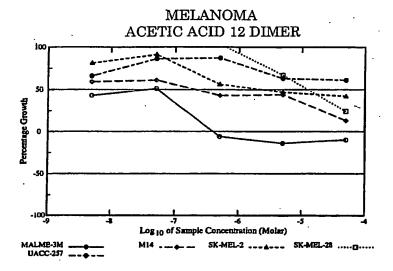


Fig. 11i

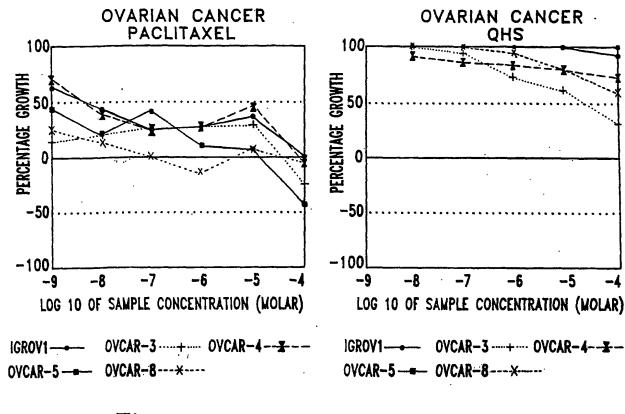


Fig. 12a

Fig. 12b

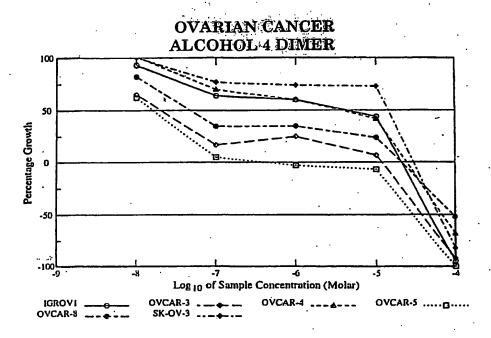


Fig. 12c

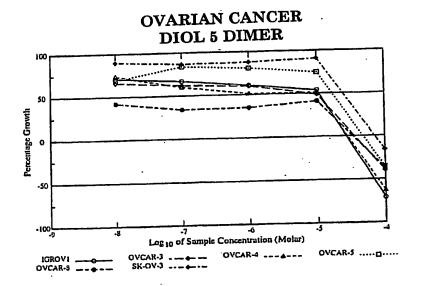


Fig. 12d

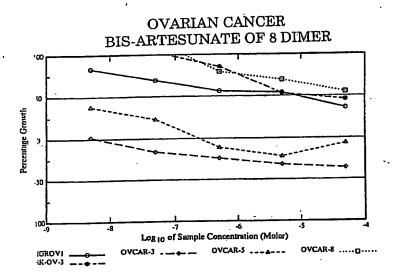


Fig. 12e

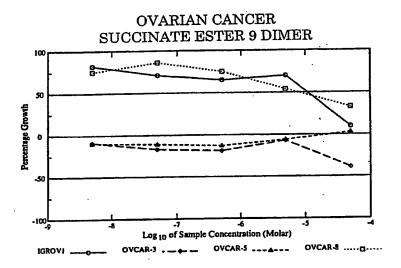


Fig. 12f

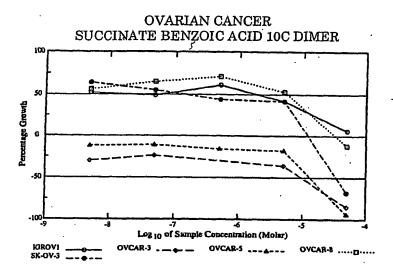


Fig. 12g

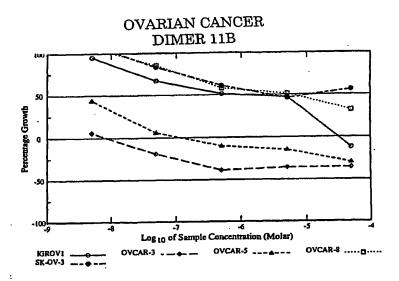


Fig. 12h

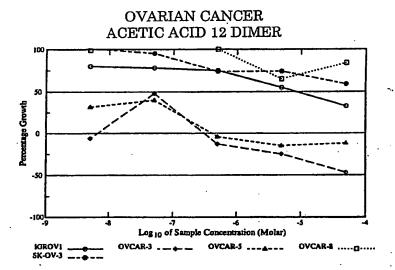


Fig. 12i

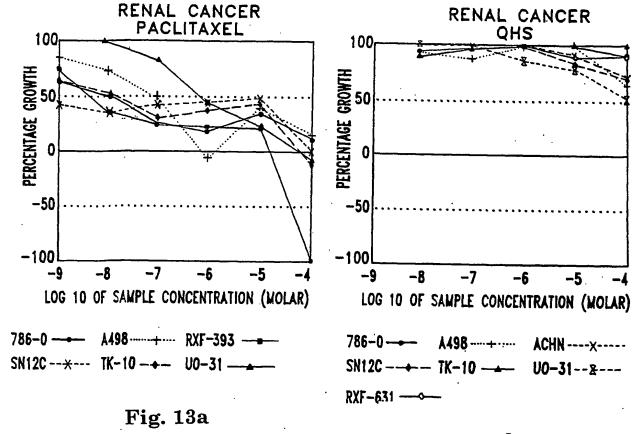


Fig. 13b

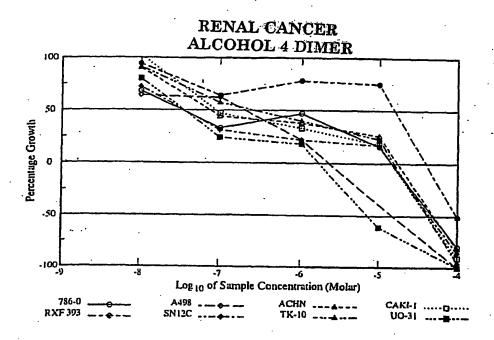


Fig. 13c

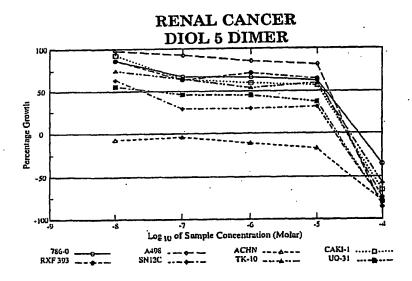


Fig. 13d

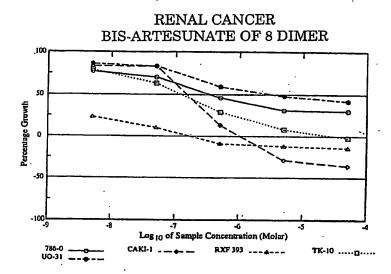


Fig. 13e

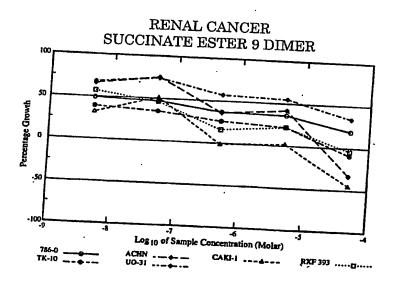


Fig. 13f

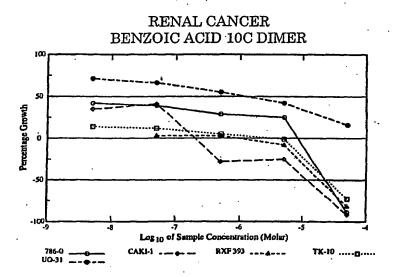


Fig. 13g

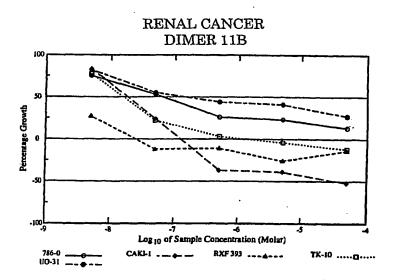


Fig. 13h

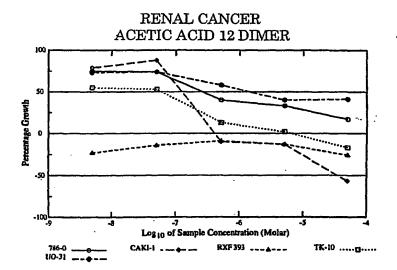


Fig. 13i

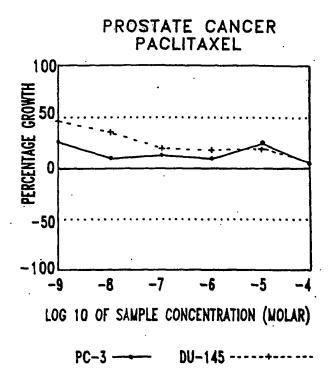


Fig. 14a

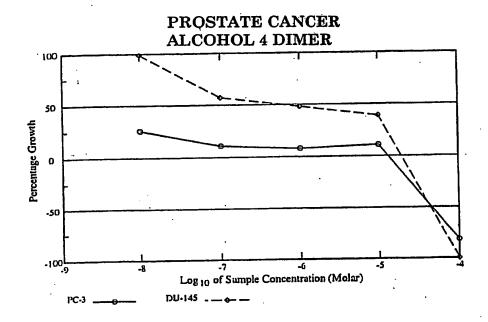


Fig. 14b

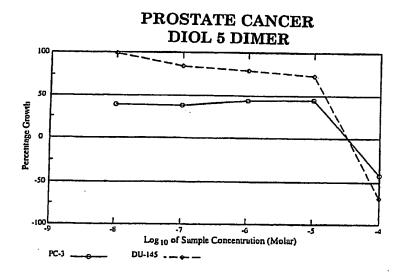


Fig. 14c

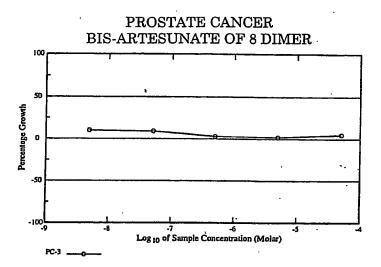


Fig. 14d

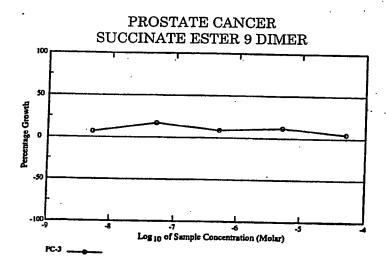


Fig. 14e

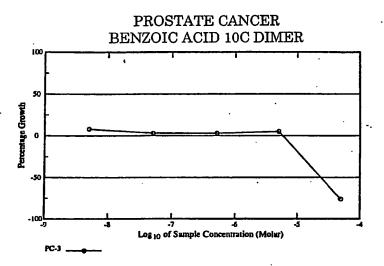


Fig. 14f

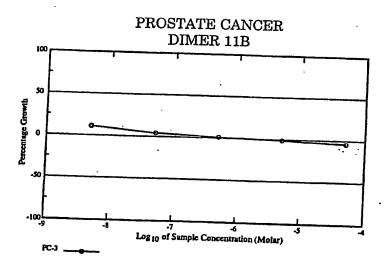


Fig. 14g

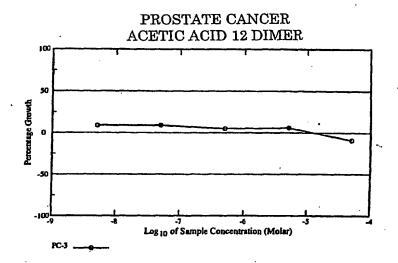


Fig. 14h

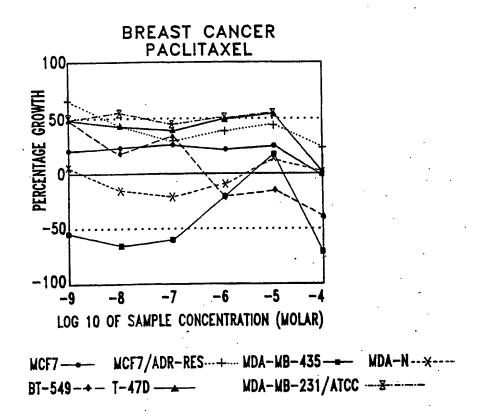


Fig. 15a

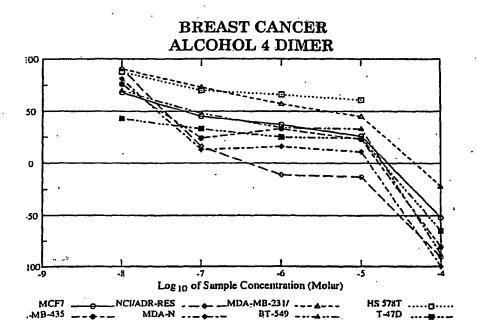


Fig. 15b

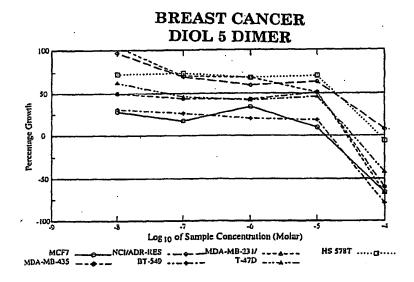


Fig. 15c

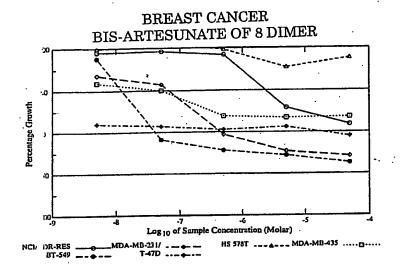


Fig. 15d

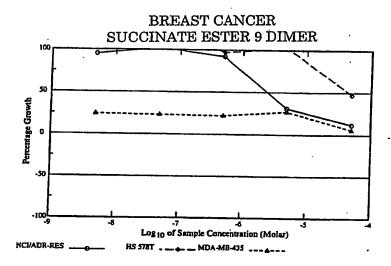


Fig. 15e

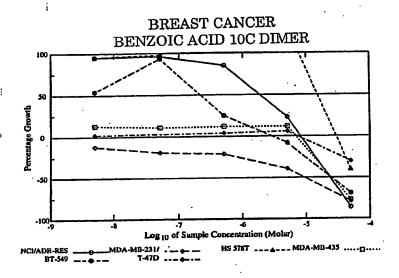


Fig. 15f

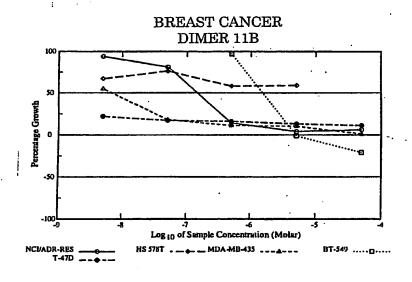


Fig. 15g

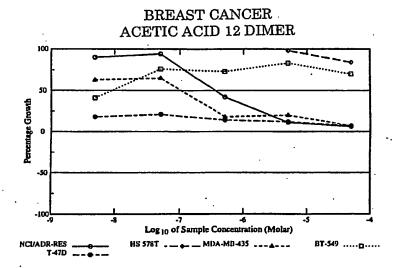


Fig. 15h

PCT/US2003/030612

FIGURE 17

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PCT/US2003/030612

### FIGURE 18

12b

# WO 2004/028476 S2/65 Art Art KHMDS, allyl bromide 18-crown-6 THF OH PCT/US2003/030612 Art Art Art RuCl<sub>3</sub> NaIO<sub>4</sub> OH

### FIGURE 20

12a ·

### FIGURE 21

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FIGURE 24

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### FIGURE 25

FIGURE 27

FIGURE 29

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### FIGURE 30

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.HCI

### FIGURE 31

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### FIGURE 33

FIGURE 35

### FIGURE 36

## FIGURE 37

FIGURE 40

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### FIGURE 41

FIGURE 43

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Art Art 
$$O_2S-OR$$
  $O_2S-OR$   $O_2S-OR$   $O_2S-NMe_2$   $O_2S$ 

### FIGURE 44

FIGURE 46

### PCT/US2003/030612

### FIGURE 47

### FIGURE 48

$$\begin{array}{c|c}
Art & Art \\
\hline
 & HCO_2H \\
\hline
 & Et_2O
\end{array}$$
46

### FIGURE 49

where HO<sub>2</sub>CCHRNR'<sub>2</sub> is any amino acid of all possible stereochemistries and with any degree and choice of protecting group

FIGURE 51

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FIGURE 52

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PCT/US2003/030612,

R = H, alkyl, aryl, etc. R' = H, alkyl, aryl, etc.

### FIGURE 53

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